STRUCTURAL INVESTIGATION OF COPPLYMENTATION REACTIONS IN RESTRUCTED DIMENSIONS

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OF THE ENGINEERING OF FLOREDA IN PARTIAL PILEFILLS
OF THE ENGINEERING TO THE DEGREE OF
DOCTOR OF PELLOSONIY

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3.1.2 Base Concerns of Language Monthson

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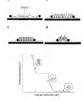


Figure 1-1 — Section pressure restrict time per antinopies workers for a long observation resupposed and the corresponding to risecular accuragement at the american Generols, in Engage expendent of Linux-conducted, (i) Colleges().

and ρ are the describes of the place and the logod, respectively, and g as the government constant. The place dissertance are defined as length (h), with (u, h) with the dense (h) of the place and the place as alternation of the logod A deny. The factorizes of (u of the place concludible component to the velocity-h, and when the place or complicity was found = 1).



Figure 1-2 - Disgress (set to real/) showing Serves using an the Wellerbeyy bir i) Pyrot toms, N-Sule view

Another important property of Longmore Elim to the surface potential, AV. This property expresses the change on the places boundary potential produced by the addition of monorhald Elim. A monology Elim at the sinfraster materials pass the record as an we enably of molecular depoint that our shift the personal across as insurface. The ΔV are to relaind to an appeared or number depoint executed, p_i using the Erfenholm equation,

where x_i and x_i is the depote anomal or more due to extend to x_i the value of x_i as siltered by the contribute of the naturative multi-quite anomalies. The objects amount it much up of these responses x_i , the anomalies and the value anomalies are the anomalies are x_i , and the polarization x_i must give an anomalies are the fine of x_i and x_i and x_i are some from the object probability gives x_i , and of the first x_i the following approximation for the object x_i and x_i in the following approximation x_i and x_i are the following approximation x_i and x_i and x_i are the following approximation x_i and x_i are the following approxi

$$g_{ij} = \begin{pmatrix} d_{ij} + d_{ij} + d_{ij} \\ d_{ij} + d_{ij} + d_{ij} \end{pmatrix}$$
 (4.4c)

where u_n, u_n and u_n are the local destricts constants of each of the little layers.

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n solid referencia very seperator, and a helef discussion of Langeroin Handger Effect

1.1.3. Minister The Passages or to a field Schmitt

Largeaut-Modgat Ele deposition on a solid substrate at explained in Section 12.1.5 The emergent of Largeaut film are from at the "liquid-organise" or in the "based-conducted" state because the film to five a gain orderer from observance cross.

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When the manulayer is held with surface pressure, is deploy decree group the obligation up and down through the surface of the water, which transfers the executive is a solid. pulsated. Surface processed degrees, speed, solves of the substants and interacement of the monolayer are sentered the garantees that have to be adjusted in relate to choose a proper considered (the "Demonstripes shough stendards of a methor parametr between the cost set and the collapse pressure. The quickly of the impostreed (the ware assumption to a parameter cached the situation with (EL) which have the following principations:

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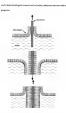


Figure 1-4 Tanacherung us Y-opes Lift mubikipen to a Epitembiliar metho

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comparisons provide a hotor-understanding and costed of two-discussional systems ^{MA} MacRethan's Chemistry on hospitate¹⁰ has a good proses of the subject

The general expression for a response with first-coder knotzer is given by the diswring equation, which applies to a surface reaction at constant satisfaced presence.

$$\frac{(A+A_{i})}{(A_{i}-A_{i})} \exp(-it)$$

The initial communicate of movinal is given by $u_{i,k}$ is the communicate at time i,k in the flavor of the move operator, $u_{i,k}$ the stand over the move operator, $u_{i,k}$ and $u_{i,k}$ are of the move operator.

completion within small row, and at in the area strates ϵ . Other miscology properties such as surface possessible ϵ vaccing with respect to polymerization tune could be included, but these with not be discounted in this tax.

One consequent so must of the mosology proportion discussed here in that more layer in its domes dynamically equilibrium. Additional information about the themsolynamic separal of more layer in discussed in the Schwarz permon.

The proposed medicines for the notions polymercones (riginals in form in Figure 16.) The strong in condition of given in yield is indeed atom. The scoots of the immercent does not form extra congruence. The copiling propose condition of the con



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state. Signiferance and solid state as three-denominant phases. The emerge of similarity in those two diffuses works was first supposed at the Feynman of that opening $^{\rm II}$. The is three dimensions. The two very dissignable phose treatment that way employbile

12.1 Two-demonstral Equation of Steel

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where A_i is the area corresponding to the on-set value. Values often expositions were proposed to explicit the original determinant from the shed value of the ITA product, but these expressions are set decreased form.

122 Majohyer Plans Transising

The most common first retain transform a si fac or set of an institute, where to general pain reaches the layout expansion case. Upon further compression, some monology indexess solubilities increase in the slope, which can be similarly in the prolifery of the bigid-condensed rater. The slope of an inchinent as mixed in the prolifery of the bigid-condensed rater.

when Clerchen calculated at a periodic yout in the nothern. The compressibility describes the communities of the lateral periodic and the risguistic of the strengthen

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 X_n -frames the measurable value of a property of the beauty mixture, N_1 and N_2 are the notes fractions, and X_n and X_n are the measurad values the the given flats.

Another important decomplyments properly of the minest extension was these energy of energy (i.e., $L_{\rm c}$), which was described by Goodesh, $L_{\rm c}$). For sind energy of a two-

when $|| \to 0$. The second free energy of mixing (AG_{ac}^{μ}) can be calculated for a beyong mixed amost kept at any white strikes preserve (D). The AG_{ac}^{μ} was determined by the

minimum nuclearum assorting in the Milyowing printipuship

$$\delta G_{n}^{n} = \int_{\mathbb{R}^{2}} A_{n} - F_{n}A_{n} - F_{n}A_{n} - F_{n}A_{n} + H \Pi \qquad \qquad (3.45)$$

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$$|k_i-k_i| \approx \frac{4\pi i m!}{i}, \qquad \qquad <1.105$$

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CHAPTER 1

2.1 Accedence

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Figure 2-5 Schemen of Bernster Angle his process

9.7 ENVESTMENT

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2.2.4 NMR Speciments

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123 Giffermoon/Decembereds

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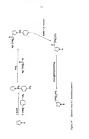
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112 Ambarated Bands

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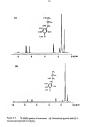
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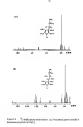
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23.5 2006 Selected Properties

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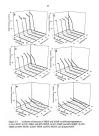
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Figure 1.4 Epitemia of the project time from hope product of 3 has also piper to Judphan van 1115 M. salatoniana prosidior. Sector present of polyatoniana van constain at Northern of purposes of the constant or dearly of the polyatoniana, b) for conspection, (i) in capacita, (i) accompression, (i) in capacita.

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Figure 3-18 Euros em of energy (197)



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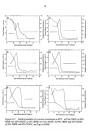
Figure 2-12. BeAM images of SCOP. A, D = 3 abbins, B, D = 6 abbins, C, D = 20 abbins, D, D = 10 abbins.

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14.6 Surface Passerol

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Figure 3-13 Language Bladgett annulus of pure 3 demolocyl symple or hydropholocied olion water. Transfer motor for the digging of first 14 kg.

Figure 3.17. The depties of Pere 2.1 (effect on an Alberta-James ann Christophill). 1995. SEED—4.14.1, 1997. 199

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Figure 3-16 Institute of polymer after reacting at IT+ 2 limitin and 25*

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1.6 Checkminter by Keeled Drigon Technique

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Figure 3-15 UV-res spectra of (a) 3-bernadocy/ pyracia and (b) to polyworcado product from the LB enough in chlorobox solution.



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Figure 2.11 *H-NMR spectrum of Language mountages polymerated 2-horastory pyrode and the magazine should structure.

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Figure 2 III. GPC data of followed components: of SEGP and SCGP. ∆ = 15mS/s D = 15mS/sin, □ = 5mS/sin.

2.7 Conductors

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1.1 Introduction

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$$= \frac{N}{N_s} = \frac{\sum NM_s}{\sum NM_s}$$

$$= 0.35$$

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3.1 Reside and Discussion

13.1 MALDI-TORIS

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Figure 3.3 MALDE Spectrum of NOOP in DTL meet



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Figure 3-3 shows the Indicate quotiness channel from monames of SIGGP to DTL contain. The peak proateous shifted to the lower mass or many by Storly man. In the mans openium, and 17th, 16t, 20t, and 23t peaks retrosposated on the DTL contrib.

(Those peaks minds Figure 3-2). The peaks such 24th related to the place \$4.50 peaks are such as \$4.50 peaks.

were devention pools, with JTL, or from the NOSP (N=N) 'ms. Any fragmentation of the NOCP is not supposed. In Figure 3.4 we wheneve the MOLTH queets of NEW in DF mours. The plant positions were their for the deven time plant point and the No. 20 th an area. The plant positions were trainfer to the deven time plant point was trained by the MOT mere of NEW wave or that and 200 positions. The neutron-assumpting points are train 200, 200, well 4.0 The NEW was not not provided to Degeneration date to the internations.



Figure 3.5. INALISE TOTAL systems of SIGN SECON and MODEP corpolyment reals assess DEL to CHACK TERRISON AND A

Then, a capelipser with a 50% contains of SECP and MODE was arresquent. Figure 3-51 energ MASINI and OTL as the nature. The master used in this complete was found of CLEONIZED ORIGINATION, and the prefact obtained from the class, on short 1,000-1-1. The entherm of enforces were used for two presence (1)-in art throughout 1,000-1-1. denoted by the of which are not of (3) is counted the expension, bumpy shall and subsidial and supera the same lates of the high angle for some times are 30%. While the subsidiary and such that the subsidiary and the subs

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attached ware observed (peak difficures of Mil). According to the data, a prolymerar amount processors with not conduct were forwed from

Table 2-1 Peak positions and the peak natigument of some urband-peaks of the MALESTEE speaks in Figure 2-5. A = 3600°, B = 76000°, X and Y = settlemen.

Posk Protion	Fook sungament (calculated)
1842	30A-86+Ne*(1991)
1810	
1254	Y+E-DIAN
3469	X+2A (34X)
3074	Y+36 (1886)
	X+64 (2626)
4007	X18A (N284)
4107	X-18A (4000)
9013	XHIA(SID)
3651	



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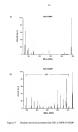
Table 3.2. Paid precious and the peak assignments of some selected peaks of the MALDSTOP quotes in Figure 3.4. A - SCOP, X and Y - acknowle

Post Postdes	Prok antigement (calculated)	
1496	14-96 (1448)	
1366		
1758	44-94 (1975)	
2047	[8194 [2046]	
1153		
	SANN INS	
3467		
1525		
2758	X+44 (1990)	
	serve, birth	
3045		
1133	X+6A [3333]	
3627		
26.13		
4000	X-5A (4098)	

Figure 3.7 shows the disquester of nonvenion 7627 and NOSP. The conceives modest good bear was Associations Process Chemical Indication (UPCE, which as well Income graph formally stage charge loss. The manner WEP shows be

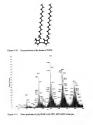
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One way problem of the same systems underso fifteen receipts on the systems of ficile two solids and pull-shadows. As the sensoring for man queries. These greatest were floated with waits and offices there say point properties. After surger of CPC colours strated in CHEETIC, we were all the integrate the models executively to the event helicoloid of existency, before some queries that conduct securities are now helicoloid of existency, before some queries 14-10. The model designed in what was apposition of securities 14-10. The model designed in which was apposition of securities 24-10. The model designed in which was apposition of securities 24-10. The model designed in the size 24-10. The model designed in the size 24-10. The model designed is size 24-10. The model designed is size 24-10. The model designed is 24-10. T



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Figure 6-1 Symmetric X-ray difference way: (A) hands of the terruph (halazer book until the fraction are visible), (B) Gazania of the terruph (Desireor, D-2, is aligned with the wanter.

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6.7 Named and Discovering

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Figure 6-10. The two measures in their staggered conformation and their calculated implies of NODP and by SEDP.

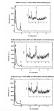


Figure 4-1.1 Diffraction of Language-Wodgett of componer films: (a) 100% WEEP, by non-1000P and 20% HODEP, c) NOT NEEP and 40% MODEP.

Computation	Zellete (Engroce)	Aspening (d)	2+110	N.
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Figure 4-12 — Consour plate of the Synchrotron X-ray deffication from the Laugurus monologies at 25 °C of the polymers. 1,3 Yuly (HEP is: 28th Na., 4,5 soft SHEP) and 1900 in applyment at 28th Na.





Figure 4-13 Century plots of the Synchrones, X-ray diffraction from the Langeaus scenarios of 1.5 "Coffee association. a.) XEEP encourage of Neutrino 6-100 and Neut







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5.5. Conductor

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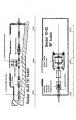
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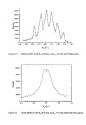




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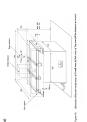




Figure 5.6. The community haven drivers of the Language travel.



Figure 5.7 The enterprise trough inside the exclusive







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Figure 5.9 Two-different chapes of bought () Small freepoint with single his N. Large freepoint with two business (symmetric competitions)



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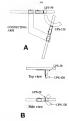
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